

ICM12 Series

12W International Power Adapter

- DOE Level VI Efficiency Rating
- Universal Input: 90 ~ 264Vac, 47/63 Hz
- UL/cUL 62368-1 Safety Approved
- Corded Output Connection
- 5Vdc USB Connection Available
- US, UK, AU & EU AC adapters
- Light Weight and Compact
- RoHS Compliant Class II Design



| Model No. | Application | Output Connector | Output Voltage | Output Current | | | Voltage Accuracy | Ripple Noise | Line Reg. | Load Reg. |
|------------|-------------|--|----------------|----------------|-------|------|------------------|--------------|-----------|-----------|
| | | | | Min | Rated | Peak | | | | |
| ICM12-050U | ITE | USB Connector | +5.0V | 0 | 2.10 | — | ±5% | < ± 1% | ± 1% | ± 5% |
| ICM12-050 | ITE | 2.1mm I.D. x 5.5mm O.D. x 9.5mm Barrel | +5.0V | 0 | 2.10 | — | ±5% | < ± 1% | ± 1% | ± 5% |
| ICM12-070 | ITE | | +7.0V | 0 | 1.71 | — | ±5% | < ± 1% | ± 1% | ± 5% |
| ICM12-090 | ITE | | +9.0V | 0 | 1.33 | — | ±5% | < ± 1% | ± 1% | ± 5% |
| ICM12-120 | ITE | | +12.0V | 0 | 1.00 | — | ±5% | < ± 1% | ± 1% | ± 5% |
| ICM12-180 | ITE | | +18.0V | 0 | 0.67 | — | ±5% | < ± 1% | ± 1% | ± 5% |
| ICM12-240 | ITE | | +24.0V | 0 | 0.50 | — | ±5% | < ± 1% | ± 1% | ± 5% |
| ICM12-300 | ITE | | +30.0V | 0 | 0.40 | — | ±5% | < ± 1% | ± 1% | ± 5% |
| ICM12-360 | ITE | | +36.0V | 0 | 0.33 | — | ±5% | < ± 1% | ± 1% | ± 5% |

- Output voltages from 5.0Vdc to 36.0Vdc are available in increments of 0.1V. Please contact Tri-Mag, LLC for the part number and specifications for your output voltage requirement and application.
- The output voltage is verified to specs at 60 percent rated load condition.
- The **line regulation** is defined by changing ± 10 percent of input voltage from the nominal line at rated load.
- The **load regulation** is defined by changing ± 40 percent of the measured output load from 60 percent of the rated load.
- The **ripple and noise** is measured by using 20MHz bandwidth limited oscilloscope with each output terminated with a 10 µF electrolytic and a 0.1 µF capacitor at rated load and nominal line.
- The **efficiency** is measured at rated load and nominal line.

ICM12 Series

An innovative, reliable, and inexpensive international adapter. That's the **ICM12 Series**.

This economical, UL/cUL 62368-1 approved Class II design is a DOE Level VI compliant power supply/charger rated up to 12W when charging any mobile

or wireless device. Plenty of voltage levels to choose from, too. From 5.0Vdc all the way up to 36.0Vdc (in increments of 0.1V), to match your need.

Contact us (800-657-0853 or Sales@Tri-Mag.com) for the part number to match your specifications.

Specifications

Input

| | |
|---------------------|-------------------------|
| Input Voltage | • 90 Vac ~ 264 Vac |
| Input Frequency | • 47 Hz to 63 Hz |
| No Load Input Power | • < 0.1W |
| Input Current | • 1.2A Max. |
| Inrush Current | • 40A Max. |
| Leakage Current | • 0.25mA Max. |
| Input Connection | • US (others available) |

Output

| | |
|--------------------------|---|
| Output Voltage Range | • 5.0 to 36.0 Vdc |
| Output Current Range | • 330 - 2100mA, 12W Max. |
| Minimum Load | • No min. load required. |
| Line Regulation | • ± 1% at rated load across input voltage range |
| Load Regulation | • ± 5% |
| Ripple & Noise | • 100mVp-p Max. |
| Overvoltage Protection | • Auto recovery |
| Overload Protection | • Auto recovery |
| Short Circuit Protection | • Auto recovery |

General

| | |
|-----------------------|--|
| Insulation Resistance | • 50MΩ Min. |
| Efficiency | • Level VI compliant |
| MTBF | • 50,000 hrs to MIL-HDBK-217F at +25°C |

Environmental

| | |
|-----------------------|-------------------------------|
| Operating Temperature | • 0°C to 40°C |
| Operating Humidity | • 5% - 95% RH, Non-Condensing |
| Storage Temperature | • -20°C to +80°C |

EMC & Safety

| | |
|------------------|--|
| Safety Approvals | • UL: ANSI/UL62368-1 • cUL: CAN/CSA C22.2 No. 62368-1 |
| EMC Approvals | • FCC |

Warranty

| | |
|-----------------|-----------|
| Warranty Period | • 3 years |
|-----------------|-----------|

Dimensions and Notes

| | |
|------------------|--|
| Dimensions in mm | |
| Tolerance | • ± 0.2mm |
| Size | • 59.0 x 40.9 x 31.5 mm 2.32 x 1.60 x 1.24 Inches |
| Weight | • Approx. 130g (4.6 oz.) |
| Connectors | • AC input, Interchangeable 2-prong inlet plug DC output, standard 5.5mm x 2.1mm corded dc output jack, USB output connector or per customer specification. |
| Cord length | • 1500 ± 20 mm (59 ± .8") |

Mechanical Drawing

